FriendlyNET® FR1004AL
Wireless Internet Router with Firewall

Safely share your high-speed Internet connection with all your computers … with or without wires!

Graphic files. Video streams. MP3 music files. And even everyday email with large attachments. Sometimes you wonder how you've been getting along without a broadband Internet connection. Now you want to share that power with others in your office or home.

Secure Packet Inspection (SPI)

Advanced Network Security

Built from the ground up to provide multiple levels of security, the FriendlyNET Internet Router with Firewall is designed around a natural firewall that protects your local computers from outside intruders. The security-hardened FriendlyNET router is the only IP network address exposed to the outside elements. The new FR1004 Series routers incorporate a detailed activity log that shows all network logins – including intrusion attempts. The integrated firewall is rated "*Full Stealth Mode*" with popular "*Shields Up! Tests*", and finally, the new Secure Packet Inspection (SPI) feature gives you even greater security by filtering both incoming and outgoing packets running through the router.
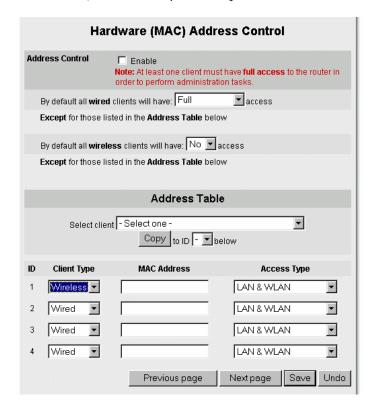
Outstanding Performance

Unlike other Internet routers, the FriendlyNET router was designed for maximum network performance at an affordable price. Start with the integrated 4-port 10/100 Mbps Fast Ethernet switch. When directly connecting two computers in the same room, network traffic moves at up to 100 Mbps (200 Mbps in full duplex mode) – ideal for backing up data from a notebook computer to a desktop machine. To anticipate your network expansion needs, the FR1004 series routers now support Asanté's new Auto-Uplink™ feature. Just uplink another 10/100 switch or hub to any LAN port on the router using standard Ethernet cable. You don't have to worry about uplink ports or cross-over cables; the router does everything for you, connecting up to 253 networking nodes.

Share Printers

Here's a cost-effective way to share a color inkjet or laser printer. Instead of dedicating a computer to act as a print server, let the FriendlyNET router handle that for you. Now you have the freedom to share a parallel port printer through a 10/100 Fast Ethernet network.

Secure Wireless Communications

On the FR1004AL router, Asanté adds the convenience of wireless LAN connectivity. Instead of being tethered to a fixed network cable, use an Asanté AeroLAN™ (or compatible 802.11b PCMCIA) wireless adapter with your notebook or desktop computers.

Hardware (MAC) Address Control

Address Control	☐ Enable

Note: At least one client must have **full access** to the router in order to perform administration tasks.

By default all **wired** clients will have: [Full ▼] access

Except for those listed in the **Address Table** below

By default all **wireless** clients will have: [No ▼] access

Except for those listed in the **Address Table** below

Address Table

Select client [- Select one - ▼]

[Copy] to ID [- ▼] below

ID	Client Type	MAC Address	Access Type
1	Wireless ▼		LAN & WLAN ▼
2	Wired ▼		LAN & WLAN ▼
3	Wired ▼		LAN & WLAN ▼
4	Wired ▼		LAN & WLAN ▼

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In addition to the standard complement of 64-bit or 128-bit wired equivalent privacy (WEP) encryption, Asanté provides an extra measure of security with *Hardware Address Controls*. The router can limit wired or wireless access to just the registered computers. This hardware-based (MAC) address security is the same technology Asanté uses on its IntraCore™ switches for universities and enterprise networks.

Award-Winning Internet Gateway Technologies

With over 30 international awards and accolades, Asanté has earned an exceptional reputation for its world-class products. The FR1004 Series routers provide even greater security, reliability and performance– at an affordable price.

SPECIFICATIONS

Connectors:	LAN: Four 10/100 Mbps Fast Ethernet (100BaseTX, 10BaseT): RJ-45, Auto-MDI/MDIX WAN: Ethernet 10/100 Mbps Fast Ethernet (100BaseTX, 10BaseT): RJ-45, Auto-MDI/MDIX Printer: Uni-directional parallel (DB25, Male) WLAN: 11 Mbps (802.11b)
Status Indicators:	Power, Status, Speed, Link/Activity (per port), WAN and Printe, Wireless indicator.

Software Overview

Administration:	Configure locally or remotely from a web browser (Internet Explorer or Netscape, version 4 or later)
Device Status:	Router IP address, LAN MAC address, WAN MAC address and firmware version
Setup:	Context-sensitive menu prompts you only for the network parameters required for your installation. Seven different WAN types supported: dynamic IP, DSL/PPP over Ethernet, DSL (always on), cable (@Home-like), cable (static IP), static IP address and PPPTP (tunneling)

Advanced Settings

Log:	Records all intrusion attempts in volatile memory
Tampering:	No externally accessible buttons or switches to change router/network configuration, password or operating parameters
Firewall:	Secure Packet Inspection (SPI) filters both inbound (WAN) and outbound (LAN) traffic according to user-defined rules (type, source address, destination address). Ideal for protecting computers in the DMZ or virtual servers. In addition, the natural packet filter with network address translation (NAT) limits WAN traffic so it can only see the router; LAN traffic is cloaked
DMZ:	Selectable address for unrestricted 2-way communications
Administration:	Password protected. Remote access may be limited only to a specific IP address or range of addresses
Storms:	Hardware-based broadcast storm prevention

Security Features

Firewall:	Hides local network addresses behind the router using Network Address Translation (NAT)
Secure Packet Inspection (SPI)	Evaluates both inbound (WAN) and outbound (LAN) packets based on addresses, state and content
Access Control:	Limits wireless LAN traffic only to registered computers with specified hardware (MAC) address

Applications Interoperability

Microsoft:	Universal Plug-and-Play (UPnP) and NetMeeting
Apple:	AppleTalk and QuickTime
Messaging:	H.323, AOL Instant Messenger, ICQ and mIRC
Others:	RealPlayer, Dialpad, Quake, Half-Life and Star Craft Unreal Tournament

Standards Compliance

Network:	IEEE 802.3u Fast Ethernet over 2 pairs of UTP Category 5 (100BaseTX) IEEE 802.3 Ethernet over 2 pairs of UTP Category 3 (10BaseT) IEEE 802.11b Wireless Ethernet over 2.4 GHz
Wireless Encryption:	64- and 128-bit Wired Equivalent Privacy (WEP)
Translation:	Network Address Translation (NAT, RFC 1631)
Transmission:	Point to Point Protocol over Ethernet (PPPoE, RFC 2516) and Point to Point Tunneling Protocol (PPTP)

Performance

Processor:	RISC CPU
Memory:	Upgradeable FLASH firmware from web browser
LAN:	10/100 Mbps
WAN:	10/100 Mbps
WLAN:	11 Mbps

Physical Characteristics

Dimensions:	7.9 x 5.9 x 1.7 inches (201 x 151 x 44 mm)
Weight:	About 1.1 pounds (0.5 Kg)

Environmental Range

Operating Temperature:	32°to 104°F (0°to 40°C)
Relative Humidity:	10% to 95% non-condensing
Power:	5 VDC. Includes external power module
Emissions:	FCC Class B and CE

Support

Product Warranty:	Two-year product warranty covers defects in manufacturing and workmanship
Technical Support:	One-year of free telephone support plus unlimited 24-hour support via web
Product Updates:	Free download of maintenance releases from web

ORDERING INFORMATION

Name	Description	Asanté Part Number*
FriendlyNET FR1004AL	4-port wireless Internet router with firewall and built-in printer server	99-00730-01

* For international part numbers, please refer to the Asanté price list.

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